Author Index

Ahmed, S.
— and Moffat, J.B.
Reactant composition and concentration effects in the oxidation of methane on supported 12-molybdophosphoric acid (4)101
Al-Ubaid, A.
— and Wolf, E.E.
Steam reforming of methane on reduced non-stoichiometric nickel aluminate catalysts (40)73
Ambach, E., see Doppler, G. (4)119
Andreev, A., see Mihajlova, A. (4)247
Arai, H., see Ishihara, T. (4)87
Ayo, D.B.
— and Susu, A.A.
Platinum-rhenium/alumina catalyst. III. Mechanism of C_6-ring hydrogenation/dehydrogenation reactions (40)1
Baranski, A.
—, Reizer, A., Kotarba, A. and Pyrczak, E.
Simultaneous effect of phase composition and water vapour on the reduction of iron catalyst for ammonia synthesis (40)67
Bergeret, G.
—, Gallezot, P., Chary, K.V.R., Rama Rao, B. and Subrahmanyam, V.S.
Structure of monolayer type vanadium pentoxide, supported on γ-alumina (40)191
Berry, F.J.
—, Gogarty, P.M. and Jenkins, J.W.
Reduction of titanium-antimony oxides in hydrogen and in carbon monoxide (40)151
Boer, M. de, see Vogt, E.T.C. (40)254
Borovkov, V.Yu., see Kazansky, V.B. (40)17
Bryan, S.J.
—, Jennings, J.R., Kipling, S.J., Owen, G., Lambert, R.M. and Nix, R.M.
Activation and performance of methanol synthesis catalysts derived from glassy copper/rare earth alloys (40)173
Bussière, P., see Lox, E.S. (40)197
Chary, K.V.R., see Bergeret, G. (40)191
Chren, S-L., see Huang, T.-J. (40)43
De Boer, M., see Vogt, E.T.C. (40)254
De Grave, E., see Lox, E.S. (40)197
Derouane, E.G.
—, Nagy, J.B., Fernandez, C., Gabelica, Z., Laurent, E. and Maljean, P.
Diffusion of alkanes in molecular sieves: evidence for confinement effect (40)L1
Dillen, A.J. van, see Vogt, E.T.C. (40)254
Dimitrova, R., see Mihajlova, A. (40)247
Doppler, G.
—, Trautwein, A.X., Ziethen, H.M., Ambach, E., Lehnert, R., Sprague, M.J. and Gonser, U.
Physical and catalytic properties of high-temperature water-gas shift catalysts based upon iron-chromium oxides (40)119
Eguchi, K., see Ishihara, T. (40)87
Fernandez, C., see Derouane, E.G. (40)L1
Gabelica, Z., see Derouane, E.G. (40)L1
Gallezot, P., see Bergeret, G. (40)191
Geus, J.W., see Van Stiphout, P.C.M. (40)219
Geus, J.W., see Vogt, E.T.C. (40)254
Gogarty, P.M., see Berry, F.J. (40)151
Gonser, U., see Doppler, G. (40)119
Grave, E. de, see Lox, E.S. (40)197
Hattori, H., see Zhang, G. (40)183
Hosaka, H., see Itoh, H. (40)53
Huang, T.-J.
— and Chren, S.-L.
Kinetics of partial oxidation of methanol over a copper-zinc catalyst (40)43
Huang, X.
—, Yang, Y. and Zhang, J.
Influence of soluble aluminium on the state and surface properties of platinum in a series of reduced platinum/alumina catalysts (40)291
Imaizumi, S., see Ishiyama, J.-I. (40)139
Ishihara, T.
—, Eguchi, K. and Arai, H.
Supported iron-cobalt-nickel ternary alloy catalysts for the hydrogenation of carbon monoxide (40)87
Ishiyama, J.-I.
—, Kurokawa, Y., Nakayama, T. and Imaizumi, S.
New preparation technique for a highly dispersed nickel-alumina catalyst and its

application to liquid phase hydrogenation (40)139
Itoh, H.
—, Hosaka, H., Ono, T. and Kikuchi, E.
Properties and product selectivities of iron ultrafine particles as a catalyst for liquid phase hydrogenation of carbon monoxide (40)53
Jacobs, L.L., see O'Connor, C.T. (40)277
Jenkins, J.W., see Berry, F.J. (40)151
Jennings, J.R., see Bryan, S.J. (40)173
Johnson, B.G., see Saini, A.R. (40)157
Jovanovic, Z.
—, Marinova, T. and Stefanov, P.
Monitoring the surface states of a low-temperature carbon monoxide shift catalyst during operation (40)131
Kazansky, V.B.
—, Zaitsev, A.V., Borovkov, V.Yu. and Lapidus, A.L.
Infrared diffuse reflectance study of alkali promoted iron/alumina and cobalt/alumina Fischer–Tropsch catalysts prepared by decomposition of carbonyls (40)17
Kikuchi, E., see Itoh, H. (40)53
Kipling, S.J., see Bryan, S.J. (40)173
Kojima, M., see O'Connor, C.T. (40)277
Kotarba, A., see Baranski, A. (40)67
Kurokawa, Y., see Ishiyama, J.-I. (40)139
Lambert, R.M., see Bryan, S.J. (40)173
Lapidus, A.L., see Kazansky, V.B. (40)17
Laurent, E., see Derouane, E.G. (40)L1
Lehnert, R., see Doppler, G. (40)119
Lox, E.S.
—, Marin G.B., De Grave, E. and Bussière, P.
Characterization of a promoted precipitated iron catalyst for Fischer–Tropsch synthesis (40)197
Maljean, P., see Derouane, E.G. (40)L1
Marin, G.B., see Lox, E.S. (40)197
Marinova, T., see Jovanovic, Z. (40)131
Massoth, F.E., see Saini, A.R. (40)157
Mihajlova, A.
—, Andreev, A., Shopov, D. and Dimitrova, R.
Effect of the precursor properties on the selectivity of iron based catalysts in the dehydrogenation of ethylbenzene to styrene (40)247
Moffat, J.B., see Ahmed, S. (40)101
Nagy, J.B., see Derouane, E.G. (40)1
Nakayama, T., see Ishiyama, J.-I. (40)139.
Nix, R.M., see Bryan, S.J. (40)173
O'Connor, C.T.
—, Jacobs, L.L. and Kojima, M.
Propene oligomerization over synthetic mica–montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277
Ono, T., see Itoh, H. (40)53
Owen, G., see Bryan, S.J. (40)173
Petrov, L.A.
—, Tenchev, K.K., Speranskaya, G.V., Savelieva, G.A., Popova, N.M. and Shopov, D.M.
Oscillations in the non-steady state oxidation of carbon monoxide over supported monometallic palladium, cerium and cobalt and bimetallic palladium–cerium and palladium–cobalt catalysts (40)27
Popova, N.M., see Petrov, L.A. (40)27
Pyrczak, E., see Baranski, A. (40)67
Rama Rao, B., see Bergeret, G. (40)191
Reizer, A., see Baranski, A. (40)67
Saini, A.R.
—, Johnson, B.G. and Massoth, F.E.
Studies of molybdena–alumina catalysts. XIV. Effect of cation-modified aluminas (40)157
Savelieva, G.A., see Petrov, L.A. (40)27
Scheur, F.Th.v.d., see Van Stiphout, P.C.M. (40)219
Shopov, D., see Mihajlova, A. (40)247
Shopov, D.M., see Petrov, L.A. (40)27
Speranskaya, G.V., see Petrov, L.A. (40)27
Sprague, M.J., see Doppler, G. (40)119
Stefanov, P., see Jovanovic, Z. (40)131
Stiphout, P.C.M. van, see Van Stiphout, P.C.M. (40)219
Stobbe, D.E., see Van Stiphout, P.C.M. (40)219
Subrahmanyam, V.S., see Bergeret, G. (40)191
Susu, A.A., see Ayo, D.B. (40)1
Tanabe, K., see Zhang, G. (40)183
Tenchev, K.K., see Petrov, L.A. (40)27
Trautwein, A.X., see Doppler, G. (40)119
Van Dillen, A.J., see Vogt, E.T.C. (40)254
Van Stiphout, P.C.M.
—, Stobbe, D.E., Scheur, F.Th.v.d. and Geus, J.W.
Activity and stability of nickel–copper-

/silica catalysts prepared by deposition-precipitation (40)219
Vogt, E.T.C.
—, De Boer, M., Van Dillen, A.J. and Geus, J.W.
Preparation of highly loaded vanadium oxide-silica catalysts (40)254
Wolf, E.E., see Al-Ubaid, A. (40)73
Yang, Y., see Huang, X. (40) 291
Zaitsev, A.V., see Kazansky, V.B. (40)17
Zhang, G.
—, Hattori, H. and Tanabe, K.
Aldol condensation of acetone/acetone d_6 over magnesium oxide and lanthanum oxide (40)183
Zhang, J., see Huang, X. (40)291
Ziethen, H.M., see Doppler, G. (40)119

Subject Index

Adsoption
Supported iron–cobalt–nickel ternary alloy catalysts for the hydrogenation of carbon monoxide (40)87
Activation
Simultaneous effect of phase composition and water vapour on the reduction of iron catalyst for ammonia synthesis (40)67
Adsorption
Diffusion of alkanes in molecular sieves: evidence for confinement effect (40)L1
Adsorption
Kinetics of partial oxidation of methanol over a copper–zinc catalyst (40)43
Ageing
Monitoring the surface states of a low-temperature carbon monoxide shift catalyst during operation (40)131
Ageing
Characterization of a promoted precipitated iron catalyst for Fischer–Tropsch synthesis (40)197
Aldol condensation
Aldol condensation of acetone/acetone d_6 over magnesium oxide and lanthanum oxide (40)183
Ammonia synthesis
Simultaneous effect of phase composition and water vapour on the reduction of iron catalyst for ammonia synthesis (40)67
Amorphous alloys
Activation and performance of methanol synthesis catalysts derived from glassy copper/rare earth alloys (40)173
Antimony oxides
Reduction of titanium–antimony oxides in hydrogen and in carbon monoxide (40)151

Benzene hydrogenation
Platinum–rhenium/alumina catalyst. III. Mechanism of C_6-ring hydrogenation/dehydrogenation reactions (40)1

Carbon monoxide conversion
Monitoring the surface states of a low-temperature carbon monoxide shift catalyst during operation (40)131
Carbon monoxide hydrogenation
Properties and product selectivities of iron ultrafine particles as a catalyst for liquid phase hydrogenation of carbon monoxide (40)53
Carbon monoxide hydrogenation
Supported iron–cobalt–nickel ternary alloy catalysts for the hydrogenation of carbon monoxide (40)87
Carbon monoxide oxidation
Reduction of titanium–antimony oxides in hydrogen and in carbon monoxide (40)151
Carbon monoxide oxidation
Preparation of highly loaded vanadium oxide–silica catalysts (40)254
Catalyst characterization
Infrared diffuse reflectance study of alkali promoted iron/alumina and cobalt/alumina Fischer–Tropsch catalysts prepared by decomposition of carbonyls (40)17
Catalyst characterization
Oscillations in the non-steady state oxidation of carbon monoxide over supported monometallic palladium, cerium and cobalt and bimetallic palladium–cerium and palladium–cobalt catalysts (40)27
Catalyst characterization
Steam reforming of methane on reduced non-stoichiometric nickel aluminate catalysts (40)73
Catalyst characterization
Reactant composition and concentration effects in the oxidation of methane on supported 12-molybdophosphoric acid (40)101
Catalyst characterization
Physical and catalytic properties of high-temperature water–gas shift catalysts based upon iron–chromium oxides (40)119
Catalyst characterization
Monitoring the surface states of a low-temperature carbon monoxide shift catalyst during operation (40)131
Catalyst characterization
Reduction of titanium–antimony oxides in

hydrogen and in carbon monoxide (40)151
Catalyst characterization
Studies of molybdena-alumina catalysts. XIV. Effect of cation-modified aluminas (40)157
Catalyst characterization
Activation and performance of methanol synthesis catalysts derived from glassy copper/rare earth alloys (40)173
Catalyst characterization
Aldol condensation of acetone/acetone d_6 over magnesium oxide and lanthanum oxide (40)183
Catalyst characterization
Structure of monolayer type vanadium pentoxide supported on γ-alumina (40)191
Catalyst characterization
Characterization of a promoted precipitated iron catalyst for Fischer-Tropsch synthesis (40)197
Catalyst characterization
Preparation of highly loaded vanadium oxide-silica catalysts (40)254
Catalyst characterization
Influence of soluble aluminium on the state and surface properties of platinum in a series of reduced platinum/alumina catalysts (40)291
Catalyst preparation
New preparation technique for a highly dispersed nickel-alumina catalyst and its application to liquid phase hydrogenation (40)139
Catalyst preparation
Activation and performance of methanol synthesis catalysts derived from glassy copper/rarte earth alloys (40)173
Catalyst preparation
Preparation of highly loaded vanadium oxide-silica catalysts (40)254
Catalyst preparation
Propene oligomerization over synthetic mica-montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277
Cation modification
Studies of molybdena-alumina catalysts. XIV. Effect of cation-modified aluminas (40)157
Cerium
Oscillations in the non-steady state oxidation of carbon monoxide over supported monometallic palladium, cerium and cobalt and bimetallic palladium-cerium and palladium-cobalt catalysts (40)27
Cobalt
Oscillations in the non-steady state oxidation of carbon monoxide over supported monometallic palladium, cerium and cobalt and bimetallic palladium-cerium and palladium-cobalt catalysts (40)27
Cobalt
Propene oligomerization over synthetic mica-montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277
Cobalt/alumina
Infrared diffuse reflectance study of alkali promoted iron/alumina and cobalt/alumina Fischer-Tropsch catalysts prepared by decomposition of carbonyls (40)17
Coke formation
Activity and stability of nickel-copper-/silica catalysts prepared by deposition-precipitation (40)219
Coke formation
Propene oligomerization over synthetic mica-montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277
Computer graphics
Diffusion of alkanes in molecular sieves: evidence for confinement effect (40)L1
Copper-zinc
Kinetics of partial oxidation of methanol over a copper-zinc catalyst (40)43
Copper/rare earth alloys
Activation and performance of methanol synthesis catalysts derived from glassy copper/rare earth alloys (40)173
Cyclohexane dehydrogenation
Platinum-rhenium/alumina catalyst. III. Mechanism of C_6-ring hydrogenation/dehydrogenation reactions (40)1
Cyclohexene hydrogenation/dehydrogenation
Platinum-rhenium/alumina catalyst. III. Mechanism of C_6-ring hydrogenation/dehydrogenation reactions (40)1

Deposition-precipitation

Activity and stability of nickel-copper-/silica catalysts prepared by deposition-precipitation (40)219
Dehydrogenation
Effect of the precursor properties on the selectivity of iron based catalysts in the dehydrogenation of ethylbenzene to styrene (40)247
Diffuse reflectance infrared
Infrared diffuse reflectance study of alkali promoted iron/alumina and cobalt/alumina Fischer-Tropsch catalysts prepared by decomposition of carbonyls (40)17
Diffusion
Diffusion of alkanes in molecular sieves: evidence for confinement effect (40)L1

Ethylbenzene dehydrogenation
Effect of the precursor properties on the selectivity of iron based catalysts in the dehydrogenation of ethylbenzene to styrene (40)247

Filamentary carbon
Activity and stability of nickel-copper-/silica catalysts prepared by deposition-precipitation (40)219
Fischer-Tropsch synthesis
Infrared diffuse reflectance study of alkali promoted iron/alumina and cobalt/alumina Fischer-Tropsch catalysts prepared by decomposition of carbonyls (40)17
Fischer-Tropsch synthesis
Properties and product selectivities of iron ultrafine particles as a catalyst for liquid phase hydrogenation of carbon monoxide (40)53
Fischer-Tropsch synthesis
Characterization of a promoted precipitated iron catalyst for Fischer-Tropsch synthesis (40)197

Glassy alloys
Activation and performance of methanol synthesis catalysts derived from glassy copper/rare earth alloys (40)173

Hexene hydrogenation
Studies of molybdena-alumina catalysts. XIV. Effect of cation-modified aluminas (40)157
Hydrocarbon oxidation
Reduction of titanium-antimony oxides in hydrogen and in carbon monoxide (40)151
Hydrogen oxidation
Reduction of titanium-antimony oxides in hydrogen and in carbon monoxide (40)151
Hydrogenation
New preparation technique for a highly dispersed nickel-alumina catalyst and its application to liquid phase hydrogenation (40)139

Ion-exchange
Propene oligomerization over synthetic mica-montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277
Iron
Properties and product selectivities of iron ultrafine particles as a catalyst for liquid phase hydrogenation of carbon monoxide (40)53
Iron
Simultaneous effect of phase composition and water vapour on the reduction of iron catalyst for ammonia synthesis (40)67
Iron
Characterization of a promoted precipitated iron catalyst for Fischer-Tropsch synthesis (40)197
Iron oxide
Effect of the precursor properties on the selectivity of iron based catalysts in the dehydrogenation of ethylbenzene to styrene (40)247
Iron-chromium oxides
Physical and catalytic properties of high-temperature water-gas shift catalysts based upon iron-chromium oxides (40)119
Iron-cobalt-nickel
Supported iron-cobalt-nickel ternary alloy catalysts for the hydrogenation of carbon monoxide (40)87
Iron/alumina
Infrared diffuse reflectance study of alkali promoted iron/alumina and cobalt/alumina Fischer-Tropsch catalysts prepared by decomposition of carbonyls (40)17

Isotope effect
Aldol condensation of acetone/acetone d_6 over magnesium oxide and lanthanum oxide (40)183

Kinetics
Platinum–rhenium/alumina catalyst. III. Mechanism of C_6-ring hydrogenation/dehydrogenation reactions (40)1
Kinetics
Kinetics of partial oxidation of methanol over a copper–zinc catalyst (40)43
Kinetics
Simultaneous effect of phase composition and water vapour on the reduction of iron catalyst for ammonia synthesis (40)67
Kinetics
Reactant composition and concentration effects in the oxidation of methane on supported 12-molybdophosphoric acid (40)101
Kinetics
Preparation of highly loaded vanadium oxide–silica catalysts (40)254

Lanthanum oxide
Aldol condensation of acetone/acetone d_6 over magnesium oxide and lanthanum oxide (40)183
Liquid phase hydrogenation
Properties and product selectivities of iron ultrafine particles as a catalyst for liquid phase hydrogenation of carbon monoxide (40)53
Liquid phase hydrogenation
New preparation technique for a highly dispersed nickel–alumina catalyst and its application to liquid phase hydrogenation (40)139

Magnesium oxide
Aldol condensation of acetone/acetone d_6 over magnesium oxide and lanthanum oxide (40)183
Methanation
Activity and stability of nickel–copper/silica catalysts prepared by deposition–precipitation (40)219
Methane oxidation
Reactant composition and concentration effects in the oxidation of methane on supported 12-molybdophosphoric acid (40)101
Methane reforming
Steam reforming of methane on reduced non-stoichiometric nickel aluminate catalysts (40)73
Methanol partial oxidation
Kinetics of partial oxidation of methanol overt a copper–zinc catalyst (40)43
Methanol synthesis
Activation and performance of methanol synthesis catalysts derived from glassy copper/rare earth alloys (40)173
Methylcyclopentane conversion
Influence of soluble aluminium on the state and surface properties of platinum in a series of reduced platinum/alumina catalysts (40)291
Mica–montmorillonite
Propene oligomerization over synthetic mica–montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277
Molecular sieves
Diffusion of alkanes in molecular sieves: evidence for confinement effect (40)L1
Molybdena–alumina
Studies of molybdena–alumina catalysts. XIV. Effect of cation-modified aluminas (40)157
Molybdophosphoric acid
Reactant composition and concentration effects in the oxidation of methane on supported 12-molybdophosphoric acid (40)101
Monolayer structure
Structure of monolayer type vanadium pentoxide supported on γ-alumina (40)191

Nickel
Propene oligomerization over synthetic mica–montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277
Nickel aluminate
Steam reforming of methane on reduced non-stoichiometric nickel aluminate catalysts (40)73
Nickel–alumina
New preparation technique for a highly

dispersed nickel-alumina catalyst and its application to liquid phase hydrogenation (40)139

Nickel-copper/silica
Activity and stability of nickel-copper-/silica catalysts prepared by deposition-precipitation (40)219

Oscillations
Oscillations in the non-steady state oxidation of carbon monoxide over supported monometallic palladium, cerium and cobalt and bimetallic palladium-cerium and palladium-cobalt catalysts (40)27

Palladium
Oscillations in the non-steady state oxidation of carbon monoxide over supported monometallic palladium, cerium and cobalt and bimetallic palladium-cerium and palladium-cobalt catalysts (40)27

Palladium-cerium
Oscillations in the non-steady state oxidation of carbon monoxide over supported monometallic palladium, cerium and cobalt and bimetallic palladium-cerium and palladium-cobalt catalysts (40)27

Palladium-cobalt
Oscillations in the non-steady state oxidation of carbon monoxide over supported monometallic palladium, cerium and cobalt and bimetallic palladium-cerium and palladium-cobalt catalysts (40)27

Particle size
Physical and catalytic properties of high-temperature water-gas shift catalysts based upon iron-chromium oxides (40)119

Particle size
Monitoring the surface states of a low-temperature carbon monoxide shift catalyst during operation (40)131

Particle size
New preparation technique for a highly dispersed nickel-alumina catalyst and its application to liquid phase hydrogenation (40)139

Platinum-rhenium/alumina
Platinum-rhenium/alumina catalyst. III. Mechanism of C_6-ring hydrogenation/dehydrogenation reactions (40)1

Platinum/alumina
Influence of soluble aluminium on the state and surface properties of platinum in a series of reduced platinum/alumina catalysts (40)291

Propene oligomerization
Propene oligomerization over synthetic mica-montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277

Selectivity
Supported iron-cobalt-nickel ternary alloy catalysts for the hydrogenation of carbon monoxide (40)87

Selectivity
New preparation technique for a highly dispersed nickel-alumina catalyst and its application to liquid phase hydrogenation (40)139

Selectivity
Effect of the precursor properties on the selecetivity of iron based catalysts in the dehydrogenation of ethylbenzene to styrene (40)247

Selectivity
Propene oligomerization over synthetic mica-montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277

Soluble aluminium
Influence of soluble aluminium on the state and surface properties of platinum in a series of reduced platinum/alumina catalysts (40)291

Steam reforming
Steam reforming of methane on reduced non-stoichiometric nickel aluminate catalysts (40)73

Styrene
Effect of the precursor properties on the selectivity of iron based catalysts in the dehydrogenation of ethylbenzene to styrene (40)247

Syngas conversion
Characterization of a promoted precipitated iron catalyst for Fischer-Tropsch synthesis (40)197

Thiophene hydrodesulfurization
Studies of molybdena-alumina catalysts.

XIV. Effect of cation-modified aluminas (40)157

Titanium-antimony oxides
Reduction of titanium-antimony oxides in hydrogen and in carbon monoxide (40)151

Topochemistry
Simultaneous effect of phase composition and water vapour on the reduction of iron catalyst for ammonia synthesis (40)67

Ultrafine particles
Properties and product selectivities of iron ultrafine particles as a catalyst for liquid phase hydrogenation of carbon monoxide (40)53

Vanadium oxide-silica
Preparation of highly loaded vanadium oxide-silica catalysts (40)254

Vanadium pentoxide/alumina
Structure of monolayer type vanadium pentoxide supported on γ-alumina (40)191

Water vapour
Simultaneous effect of phase composition and water vapour on the reduction of iron catalyst for ammonia synthesis (40)67

Water-gas shift reaction
Physical and catalytic properties of high-temperature water-gas shift catalysts based upon iron-chromium oxides (40)119

Zeolites
Diffusion of alkanes in molecular sieves: evidence for confinement effect (40)L1

Zinc
Propene oligomerization over synthetic mica-montmorillonite (SMM) and SMM incorporating nickel, zinc and cobalt (40)277